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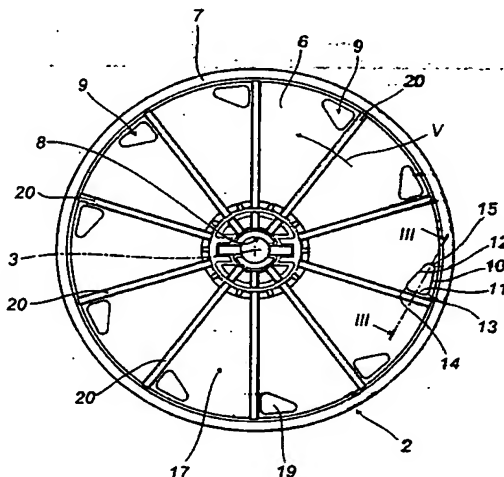
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(54) Title: AN AXIAL FAN



(57) Abstract: Described is an axial fan in which an impeller (1) comprises a hub (2), motor-powered so that it rotates about its own central axis (3) and a plurality of blades (5) extending from the hub (2) in directions transversal to the hub (2) axis of rotation (3); the hub having a cup shape and formed by a ring-shaped side wall (7) and a bottom wall (6) which has a plurality of long ribs (20) arranged in a radial direction and extending in height towards the hub (2) cavity, each of the ribs (20) abutting on the internal face of the ring-shaped side wall (7) and delimiting, together with said ring shaped side wall, a corner area of the bottom wall (6) positioned in front of the rib (20) with reference to the hub (2) direction of rotation (V); each corner area having a through-hole (9) for discharging any debris, in particular water, sand, soil or sludge, from the hub (2) cavity to the outside of the hub (2). The through holes (9) are evenly distributed along a circle centred on the hub (2) axis of rotation (3) and have a substantially triangular prismatic shape with a vertex wall (15) facing forwards according to the hub (2) direction of rotation (V).

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